

Scout Report sent out ☐

Noted in the NID File ☐

Location map pinned ☐

Approval or Disapproval Letter ☐

Date Completed, P. & A, or  
operations suspended \_\_\_\_\_

Pin changed on location map ☐

Affidavit and Record of A & P ☐

Water Shut-Off Test ☐

Gas-Oil Ratio Test ☐

Well Log Filed ☐

### FILE NOTATIONS

Entered in NID File ☒

Entered On S R Sheet ☒

Location Map Pinned ☒

Card Indexed ☒

I W R for State or Fee Land \_\_\_\_\_

Checked by Chief \_\_\_\_\_

Copy NID to Field Office \_\_\_\_\_

Approval Letter ☒

Disapproval Letter \_\_\_\_\_

### COMPLETION DATA: (2-20-58)\*

Date Well Completed 2-20-58

OW ☒ WW \_\_\_\_\_ TA \_\_\_\_\_

GW \_\_\_\_\_ OS \_\_\_\_\_ PA \_\_\_\_\_

Location Inspected \_\_\_\_\_

Bond released \_\_\_\_\_

State of Fee Land \_\_\_\_\_

### LOGS FILED

Driller's Log 2-27-58

Electric Logs (No. ) 6

E ☒ I ☒ E-I ☒ GR \_\_\_\_\_ GR-N ☒ Micro ☒

Lat \_\_\_\_\_ Mi-L ☒ Sonic \_\_\_\_\_ Other Graduactivity

2 Core Analysis

\* Operations temp. suspended

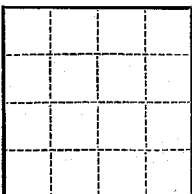
(SUBMIT IN TRIPLICATE)

Indian Agency Navajo

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee Tribal

Lease No. 14-20-603-355



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL.....	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	
NOTICE OF INTENTION TO CHANGE PLANS.....		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....		SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL.....		SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....		SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....		SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Denver, Colorado August 1, 19 57

Well No. 3 is located 560 ft. from S line and 620 ft. from W line of sec. 22

SW/4 SW/4 Sec. 22 41 South 24 East San Juan S.L.M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
East Desert Creek San Juan County Utah  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is \_\_\_\_\_ ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drill 12-1/4" hole to approximately 1400', set 8-5/8" casing and cement to surface. Drill 7-7/8" hole to approximately 5700', run and cement 5-1/2" casing and complete in Paradox formation.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Phillips Petroleum Company

Address 1200 Denver Club Bldg.

Denver 2, Colorado

By W. M. Schul

Title Division Supt.

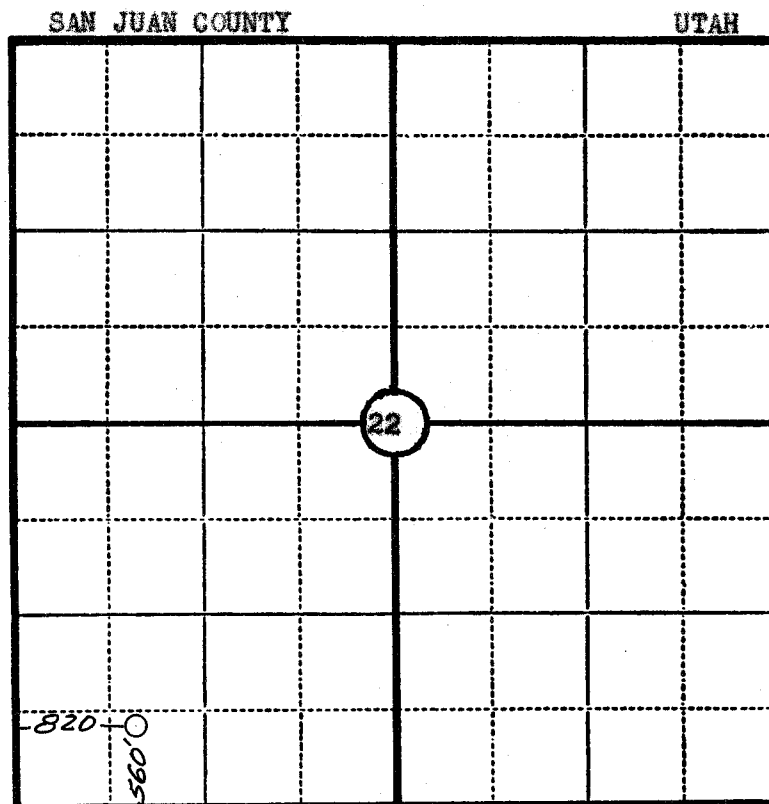
Company THE PHILLIPS PETROLEUM COMPANY

Lease NAVAJO Well No. \_\_\_\_\_

Sec. 22, T. 41 SOUTH, R. 24 EAST, S.1.M.

Location 560' from the SOUTH LINE and 820' from the WEST LINE

Elevation 4596.4 UNGRADED



Scale—4 inches equal 1 mile.

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.

Seal:

*James P. Leese*

Registered Land Surveyor.

James P. Leese

Utah Reg. No. 1472

Surveyed 31 JULY, 19. 57

SAN JUAN ENGINEERING COMPANY, FARMINGTON, N. M.

55

# PHILLIPS PETROLEUM COMPANY

1200 Denver Club Building

Denver, Colorado

August 2, 1957

Mr. Cleon B. Feight, Secretary  
Utah Oil and Gas Conservation Commission  
140 State Capitol Building  
Salt Lake City, Utah

Dear Mr. Feight:

For your files we attach herewith two copies of Notice of Intention to Drill which was filed with U. S. Geological Survey on our well Navajo "A" #3 in the SW/4 SW/4 Section 22-41S-24E San Juan County, Utah.

Yours very truly

PHILLIPS PETROLEUM COMPANY



W. M. Schul  
Division Superintendent

CCK:mnw

Attach: 2

August 5, 1957

Phillips Petroleum Company  
1200 Denver Club Building  
Denver 2, Colorado

Gentlemen:

This is to acknowledge receipt of your notice of intention to drill Well No. Navajo A-3, which is to be located 560 feet from the south line and 820 feet from the west line of Section 22, Township 41 South, Range 24 East, SLEM, San Juan County, Utah.

Please be advised that insofar as this office is concerned, approval to drill said well is hereby granted.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT  
SECRETARY

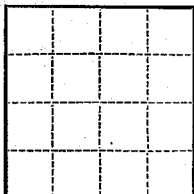
CBF:en

cc: Phil McGrath  
USGS, Farmington, N. M.

Don Russell  
USGS, Salt Lake City, Ut.

21

(SUBMIT IN TRIPLICATE)

Indian Agency **Havajo**UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEYAllottee **Tribal**Lease No. **14-30-603-355**

## SUNDRY NOTICES AND REPORTS ON WELLS

*Noted  
C.H.  
8-28-57*

NOTICE OF INTENTION TO DRILL.....	SUBSEQUENT REPORT OF WATER SHUT-OFF.....	<input checked="" type="checkbox"/>
NOTICE OF INTENTION TO CHANGE PLANS.....	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING.....	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF.....	SUBSEQUENT REPORT OF ALTERING CASING.....	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL.....	SUBSEQUENT REPORT OF REDRILLING OR REPAIR.....	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT.....	
NOTICE OF INTENTION TO PULL OR ALTER CASING.....	SUPPLEMENTARY WELL HISTORY.....	
NOTICE OF INTENTION TO ABANDON WELL.....		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Denver, Colorado August 23, 19 57

**Havajo "A"**  
Well No. **3** is located **360** ft. from **NE 1/4** line and **620** ft. from **W 1/2** line of sec. **22**  
**36/4, 36/4, Sec. 22** **41 South 24 East** **S.L. M.**  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
**East Desert Creek** **San Juan County** **Utah**  
(Field) (County or Subdivision) (State or Territory)

The elevation of the ~~ground~~ derrick floor above sea level is **4596** ft.

## DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Spudded 4:00 p.m. August 8, 1957. Drilled 17-1/4" hole to 36' and set 15" conductor pipe cemented with 35 sacks. Drilled 12-1/4" hole to 1315', set 8-5/8" 24 J-55 casing at 1313' MB, cemented with 650 sacks. Had water flow behind 8-5/8". Ran 140' of 1" pipe behind casing & cemented with 60 sacks. Water broke through. Perforated with 4 holes 247-49', set retainer at 530', squeezed with 30 sacks, shut off half of water flow. Perforated 191-192' with 4 holes, squeezed with 30 sacks, shut water off. WOC 6 hrs, drilled out retainer, tested with 500' for 30 minutes, held OK. Drilled to 1400', tested again with 500' for 30 minutes, held OK.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **Phillips Petroleum Company**Address **1200 Denver Club Bldg.****Denver 2, Colorado**By *[Signature]*  
**V. H. Schul**Title **Division Supt.**

CORE LABORATORIES, INC.  
*Petroleum Reservoir Engineering*  
DALLAS 1, TEXAS

September 24, 1957

REPLY TO  
706 PATTERSON BLDG.  
DENVER, COLORADO

Phillips Petroleum Company  
Production Department  
Bartlesville, Oklahoma

Attention: Mr. Earl Griffin

Subject: Core Analysis  
Navajo A-3 Well  
White Mesa Field  
San Juan County, Utah

Gentlemen:

Diamond coring equipment and water base mud were used to core the intervals from 5259 to 5306 and from 5307 to 5572 feet in the Navajo A-3. Representatives of Phillips Petroleum Company and of Core Laboratories, Inc. selected samples of recovered formation on which analysis was desired, and samples from these intervals were analyzed in the Farmington laboratory. The analysis was made by whole-core analysis procedures using long segments of full-diameter core, and the results are presented in this report. A description of the whole-core analysis procedure employed is presented on page one of the report.

Hermosa formation from 5303.5 to 5306.0 feet is impermeable, has extremely low porosity, and is nonproductive.

A Hermosa section from 5361 to 5373 feet also has comparatively low permeability and porosity, together with unfavorable residual liquid saturations at most points. This zone has no commercial value and should be excluded from the completion interval.

From 5373 to 5379 feet, the Hermosa formation shows much improvement in porosity development and also shows slightly higher permeability than the other zones previously discussed. The residual oil and

total water saturations in this six-foot interval are favorable to oil production. The arithmetic average permeability is, however, only 2.1 millidarcys, and the total observed productive capacity is limited to 13 millidarcy-feet, inadequate for satisfactory rates of oil production unless very favorable response is obtained to treatment. The porosity in the zone ranges from 6.7 to 13.0 per cent and averages 9.1 per cent, and the empirically calculated connate water saturation is 21.9 per cent of pore space.

Estimates of recoverable oil have been calculated for the Hermosa formation between 5373.0 and 5379.0 feet using the observed core analysis data in conjunction with estimated reservoir fluid characteristics considered applicable. These estimates are presented on page two of the report, and are subject to the conditions set forth in the body of and in the footnotes to the summary page.

Hermosa formation from 5379 to 5383 feet has favorable residual oil and total water saturations, but the extremely low permeability and porosity indicate this zone to be of no productive significance in the well.

From 5407 to 5418 feet, the interval is represented by three samples, all of which exhibit zero permeability and extremely low porosity. This zone is nonproductive.

From 5443 to 5471 feet, extremely low permeability and porosity characterize all of the analyzed formation, and the zone is essentially nonproductive.

The Hermosa formation from 5475.0 to 5517.8 feet shows permeability of less than 0.1 millidarcy at practically all points analyzed, together with extremely low porosity. This zone is considered to be essentially nonproductive.

From 5531.0 to 5540.5 feet, high total water saturations show this zone to be of no commercial value.



Phillips Petroleum Company  
Navajo A-3 Well

Page Three

A very thin stringer from 5540.5 to 5542.1 feet shows favorable residual oil and total water saturations, together with fair porosity development. The absence of permeability and the lack of productive thickness, however, indicate this section to be of no commercial importance.

Formation from 5542.1 to 5546.0 feet has very high total water saturations and is considered to be of no commercial value.

The final portion of this cored interval analyzed extends from 5570 to 5572 feet. Extremely low permeability and porosity indicate this stringer to be nonproductive.

Thank you for the opportunity to be of service to you.

Very truly yours,

Core Laboratories, Inc.

  
J. D. Harris,  
District Manager

JDH:TLK:sw

CORE LABORATORIES, INC.  
*Petroleum Reservoir Engineering*  
DALLAS, TEXAS

Page 1 of 2  
File RP-3-587 WC  
Well Navajo A-3

Whole Core Analysis Procedure

(A) Portion No. 1 (consists of essentially all of full diameter core fragments within specified interval, up to a combined length of about 18 inches), for fluid saturations and porosity.

1. After partial evacuation, water is injected at 2000 PSI. Weight increase is determined to the nearest gram, and equivalent volume is taken as the gas content of the sample.
2. Oil is removed by retorting under vacuum at temperatures up to 450° F. Recovered oil is trapped in a dry ice bath, read to nearest cc., and corrected for loss and density.
3. Water is removed along with the oil, and measured to nearest cc. Amount originally in sample is determined by subtracting amount added during saturation, Item 1 above.
4. Porosity is total corrected oil and water volumes recovered expressed as per cent of rock volume.

(B) Portion No. 2 (consists of largest suitable piece of whole core out of Portion No. 1), for permeability.

1. Air permeability is measured in two horizontal directions; corrections are made for Klinkenberg effect; data reported as  $K_{max}$  and  $K_{90}$ .

## CORE LABORATORIES, INC.

Petroleum Reservoir Engineering

DALLAS, TEXAS

Page 2 of 2 File RP-3-587 WC

Well Navajo A-3

## CORE SUMMARY AND CALCULATED RECOVERABLE OIL

FORMATION NAME AND DEPTH INTERVAL: Hermosa 5373.0-5379.0

FEET OF CORE RECOVERED FROM ABOVE INTERVAL	6.0	AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	21.9
FEET OF CORE INCLUDED IN AVERAGES	6.0	AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE (c)	21.9
AVERAGE PERMEABILITY: MILLIDARCYS	Max.: 2.1 90°: 0.4	OIL GRAVITY: °API (e)	40
PRODUCTIVE CAPACITY: MILLIDARCY-FEET	Max.: 13 90°: 2.4	ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL (e)	650
AVERAGE POROSITY: PER CENT	9.1	ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL (e)	1.36
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE	23.6	CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT	405

Calculated maximum solution gas drive recovery is 126 barrels per acre-foot, assuming production could be continued until reservoir pressure declined to zero psig. Calculated maximum water drive recovery is 239 barrels per acre-foot, assuming full maintenance of original reservoir pressure, 100% areal and vertical coverage, and continuation of production to 100% water cut. (Please refer to footnotes for further discussion of recovery estimates.)

FORMATION NAME AND DEPTH INTERVAL:

FEET OF CORE RECOVERED FROM ABOVE INTERVAL		AVERAGE TOTAL WATER SATURATION: PER CENT OF PORE SPACE	
FEET OF CORE INCLUDED IN AVERAGES		AVERAGE CONNATE WATER SATURATION: PER CENT OF PORE SPACE	
AVERAGE PERMEABILITY: MILLIDARCYS		OIL GRAVITY: °API	
PRODUCTIVE CAPACITY: MILLIDARCY-FEET		ORIGINAL SOLUTION GAS-OIL RATIO: CUBIC FEET PER BARREL	
AVERAGE POROSITY: PER CENT		ORIGINAL FORMATION VOLUME FACTOR: BARRELS SATURATED OIL PER BARREL STOCK-TANK OIL	
AVERAGE RESIDUAL OIL SATURATION: PER CENT OF PORE SPACE		CALCULATED ORIGINAL STOCK-TANK OIL IN PLACE: BARRELS PER ACRE-FOOT	

Calculated maximum solution gas drive recovery is                barrels per acre-foot, assuming production could be continued until reservoir pressure declined to zero psig. Calculated maximum water drive recovery is                barrels per acre-foot, assuming full maintenance of original reservoir pressure, 100% areal and vertical coverage, and continuation of production to 100% water cut. (Please refer to footnotes for further discussion of recovery estimates.)

(c) Calculated    (e) Estimated    (m) Measured    (\*) Refer to attached letter.

These recovery estimates represent theoretical maximum values for solution gas and water drive. They assume that production is started at original reservoir pressure; i.e., no account is taken of production to date or of prior drainage to other areas. The effects of factors tending to reduce actual ultimate recovery, such as economic limits on oil production rates, gas-oil ratios, or water-oil ratios, have not been taken into account. Neither have factors been considered which may result in actual recovery intermediate between solution gas and complete water drive recoveries, such as gas cap expansion, gravity drainage, or partial water drive. Detailed predictions of ultimate oil recovery to specific abandonment conditions may be made in an engineering study in which consideration is given to overall reservoir characteristics and economic factors.

These analyses, opinions or interpretations are based on observations and materials supplied by the client to whom, and for whose exclusive and confidential use, this report is made. The interpretations or opinions expressed represent the best judgment of Core Laboratories, Inc. (all errors and omissions excepted); but Core Laboratories, Inc., and its officers and employees assume no responsibility and make no warranty or representation as to the productivity, proper operation, or profitability of any oil, gas or other mineral well or sand in connection with which such report is used or relied upon.

Distribution of Final Reports

1 Copy	Phillips Petroleum Company Production Department Bartlesville, Oklahoma Attention: Mr. Earl Griffin
1 Copy	Phillips Petroleum Company Economics Department Bartlesville, Oklahoma Attention: Mr. C. E. Turner
5 Copies	Phillips Petroleum Company 1200 Denver Club Building Denver, Colorado Attention: Mr. W. M. Schul
1 Copy	Phillips Petroleum Company 655 West Broadway Farmington, New Mexico Attention: Mr. J. A. Byrd
1 Copy	Phillips Petroleum Company 1200 Denver Club Building Denver, Colorado Attention: Mr. Frank Earle
6 Copies	Phillips Petroleum Company 1211 Main Avenue Durango, Colorado Attention: Mr. W. M. Freeman
2 Copies	Phillips Petroleum Company 514 Bank Building Bartlesville, Oklahoma Attention: Mr. R. O. Dunbar

# PHILLIPS PETROLEUM COMPANY

1200 Denver Club Building  
Denver 2, Colorado

September 25, 1957

Mr. Cleon B. Feight  
Secretary  
Utah Oil & Gas Conservation Commission  
State Capitol Building  
Salt Lake City, Utah

*Noted  
CASH  
10-3-57*

Dear Mr. Feight:

We are enclosing herewith two copies of Core Analysis Report on our Navajo "A" #3, San Juan County, Utah.

Very truly yours,

PHILLIPS PETROLEUM COMPANY



W. M. Schul  
Division Superintendent

CCK:L

Attach.

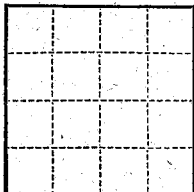
(SUBMIT IN TRIPLICATE)

Indian Agency Savage

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Allottee Tribal

Lease No. 11-29-603-335



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Denver, Colorado October 8, 19 57

Well No. 3 is located 540 ft. from S line and 880 ft. from W line of sec. 22  
SW/4 NW/4 Sec. 22 41 South 24 East S.T.M.  
 (1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
White Mesa San Juan County Utah  
 (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4609 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Confirming verbal approval given to our Mr. J. A. Byrd. Will set bridging plug at approximately 5450', dump sand or so of cement, perforate and test duplex zone 5397-5379, acidizing as necessary. If commercial, complete well in duplex. If not commercial in duplex, squeeze off perforations, drill out bridging plug and complete in Permian formation.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Phillips Petroleum Company

Address 1300 Denver Club Bldg.  
Denver 1, Colorado

POOR COPY

By [Signature]

Title Division Superintendent

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# PHILLIPS PETROLEUM COMPANY

1200 Denver Club Building  
Denver, Colorado

October 10, 1957

Mr. Cleon B. Feight  
Secretary  
Utah Oil & Gas Conservation Commission  
State Capitol Building  
Salt Lake City, Utah

*Noted  
ca. 10-15-57*

Dear Mr. Feight:

We enclose herewith two copies of Lane-Wells Gamma  
Ray Neutron Log run on our Navajo "A" #3 San Juan County, Utah.

Very truly yours,

PHILLIPS PETROLEUM COMPANY

*W. M. Schul*  
W. M. Schul

Division Superintendent

CCK:L  
Attachment

October 10, 1957

Phillips Petroleum Company  
1200 Denver Club Building  
Denver 2, Colorado

Gentlemen:

This is to acknowledge receipt of your notice of intention to change plans for Well No. Navajo A-3, which is located 560 feet from the south line and 820 feet from the west line of Section 22, Township 41 South, Range 24 East, SE1/4, San Juan County, Utah.

Please be advised that insofar as this office is concerned, approval is hereby granted to make the indicated changes.

Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT  
SECRETARY

CBF:cn

cc: Phil McGrath  
USGS, Farmington,  
New Mexico

DR-USGS

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# PHILLIPS PETROLEUM COMPANY

1200 Denver Club Building

Denver, Colorado

October 11, 1957

Mr. Cleon B. Feight, Secretary  
Utah Oil & Gas Conservation Commission  
State Capitol Building  
Salt Lake City, Utah


Dear Mr. Feight:

Enclosed herewith are two copies each of the following logs run on Phillips Petroleum Company - Aztec Oil and Gas Company's Navajo "A" #3, San Juan County, Utah.

1. Lane Wells GR-N (open hole)
2. Lane Wells GR-N (in 5-1/2" casing)
3. Schlumberger GR-N
4. Schlumberger Induction E Log
5. Schlumberger Micro Log
6. Schlumberger Micro Laterolog
7. Schlumberger E Log

Very truly yours,

PHILLIPS PETROLEUM COMPANY

  
W. M. Schul  
Division Superintendent

CCK:maw

Attach:

16

# PHILLIPS PETROLEUM COMPANY

1200 Denver Club Building  
Denver 2, Colorado

October 16, 1957

Mr. Cleon B. Feight  
Secretary  
Utah Oil & Gas Conservation Commission  
State Capitol Building  
Salt Lake City, Utah

Dear Mr. Feight:

On August 1, 1957 we forwarded you two copies of our Notice of Intention to drill our Navajo A #3 located in the SW/4 of the SW/4 of Sec. 22-41S-24E San Juan County, Utah. To date we have not received approval from the Utah Oil & Gas Conservation Commission for the drilling of this well. Will you kindly furnish us with such approval?

Very truly yours,

PHILLIPS PETROLEUM COMPANY



W. M. Schul  
Division Superintendent

WMS:L

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October 17, 1957

Phillips Petroleum Company  
1200 Denver Club Building  
Denver 2, Colorado

ATTENTION: W. M. Schul, Division Superintendent

Re: Well No. Navajo A-3, SW $\frac{1}{4}$  SW $\frac{1}{4}$   
of Sec. 22, T. 41 S, R. 24 E,  
SLEM, San Juan County, Utah

Gentlemen:

With reference to your letter of October 16, 1957, attached hereto is a photostatic copy of the copy of our letter which was sent to you on August 5, 1957, approving the drilling of the above mentioned well.

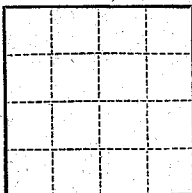
Yours very truly,

OIL & GAS CONSERVATION COMMISSION

CLEON B. FEIGHT  
SECRETARY

CBF:cn

(SUBMIT IN TRIPLICATE)



UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Indian Agency **Navajo**

Allottee **Tribal**

Lease No. **14-20-603-355**

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	<input checked="" type="checkbox"/>	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF		SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE		SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING		SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL			

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Denver, Colorado February 7, 1958

Navajo "A"  
Well No. **3** is located **560** ft. from **NE** line and **820** ft. from **NE** line of sec. **22**  
**SW/4 SW/4 Sec. 22** **41 South 24 East** **S.L.M.**  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
**White Mesa** **San Juan County** **Utah**  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is **4609** ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Confirming verbal approval given to our Mr. J. A. Byrd. Will pull rods and tubing, run bridge plug set 5430 ft. Run X retainer set 5300 and squeeze perforations 5357-67, 5372-79. Drill out retainer, cement and bridge plug, reperforate 5511-5527 Acidize with 15,000 gal Jel X-100 and test.

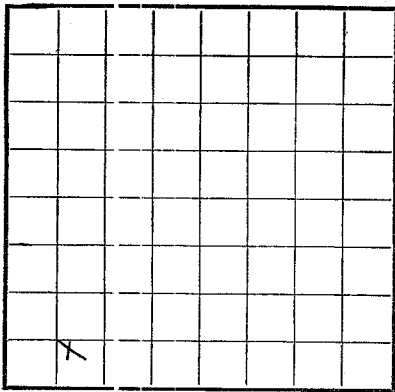
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company **PHILLIPS PETROLEUM COMPANY**

Address **1200 Denver Club Building**

**Denver 2, Colorado**

By **W. M. Schul**  
Title **Division Superintendent**

U. S. LAND OFFICE Navajo  
SERIAL NUMBER 14-20-603-355  
LEASE OR PERMIT TO PROSPECT

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

## LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Phillips Petroleum Company - Address 1200 Denver Club Bldg.  
Astec Oil & Gas Co. Denver 2, Colorado  
Lessor or Tract Navajo "A" Field White Mesa State Utah  
Well No. 3 Sec. 22 T. 41S R. 24E Meridian S.L.M. County San Juan  
Location 540 ft. S. of 8 Line and 820 ft. E. of W Line of Section 22 Elevation 4609  
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed [Signature]Date February 24, 1958 Title Division Superintendent

The summary on this page is for the condition of the well at above date.

Commenced drilling August 8, 1957 Finished drilling September 15, 1957

## OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 5, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_ No. 6, from \_\_\_\_\_ to \_\_\_\_\_

## IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_ No. 3, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_ No. 4, from \_\_\_\_\_ to \_\_\_\_\_

## CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
<u>8-5/8"</u>	<u>24</u>	<u>8</u>	<u>J-55</u>	<u>1304</u>	<u>Halliburton</u>				
<u>5-1/2"</u>	<u>14</u>	<u>8</u>	<u>J-55</u>	<u>5590</u>	<u>Halliburton</u>				

## HISTORY OF OIL OR GAS WELL

## MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8"</u>	<u>333'</u>	<u>650</u>	<u>Circ.</u>		
<u>5-1/2"</u>	<u>583'</u>	<u>450</u>	<u>Halliburton</u>		

## PLUGS AND ADAPTERS

Heaving plug—Material \_\_\_\_\_ Length \_\_\_\_\_ Depth set \_\_\_\_\_

Adapters—Material \_\_\_\_\_ Size \_\_\_\_\_

## SHOOTING RECORD

## SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

## TOOLS USED

Rotary tools were used from 0 feet to 5584 feet, and from  feet to  feet  
 Cable tools were used from  feet to  feet, and from  feet to  feet

## DATES

February 24, 1958 Put to producing Operations temporarily suspended February 20, 1958  
 The production for the first 24 hours was 303 barrels of fluid of which 8% was oil;  %  
 emulsion 61% acid; and 11% sand oil. Gravity, °Bé.  

If gas well, cu. ft. per 24 hours  Gallons gasoline per 1,000 cu. ft. of gas  

Rock pressure, lbs. per sq. in. 210

## EMPLOYEES

George Noland, Inc., Driller  , Driller  
  , Driller  , Driller

## FORMATION RECORD

FROM -	TO -	TOTAL FEET	FORMATION
0	260	260	Morrison
260	480	220	Bluff
480	560	80	Carmel
560	880	320	Navajo
880	970	90	Kayenta
970	1430	460	Wingate
1430	2190	760	Chinle
2190	2230	40	Shinarump
2230	2390	160	Moenkopi
2390	2440	50	Cutler
2440	2650	210	De Chelly
2650	3840	1190	Organ Rock
3840	4380	540	Rice
4380	5400	1020	Upper Hermosa
5400	5584	184	Paradox

FORMATION RECORD—Continued

FEB 27 1958

U. S. FUND OFFICE

APPROPRIATE EXHIBITS 15-37-00  
 15-37-00 43-53224

DAILY REPORT DETAILED - Sheet No. 8

<u>DATE</u>	<u>TOTAL DEPTH</u>	<u>NATURE OF WORK PERFORMED</u>
February 1958 (Cont'd)		
17	5544	Swabbed 23 hours, recovered 110.06 BF; 17.51 BO and 92.55 BAW, swabbing from 5250', 2 pulls per hour. 14 barrels net oil recovered above load. 191 BAW to recover.
18	5544	Swabbed 24 hours from 5260', 1 pull per hour, recovered total of 24.15 BF; 3 BO and 21.15 BAW. 170 BAW to recover. 17 barrels net oil recovered.
19	5544	Swabbed 24 hours, recovered 46.68 BF; 6.68 BO and 40 BAW, 2 pulls per hour. 200' of fluid in hole, no increase in gas. 23.68 barrels net oil recovered. 130 BAW to recover.
20	5544	Shut in. Swabbed 2 hours, recovered 6.35 BF; 1.27 BO and 5.08 BAW. 125 BAW to recover. 25 barrels net oil recovered. Moved out Signal Drilling & Expl. rig. Operations temporarily suspended. Final Report.

DAILY REPORT DETAILED - Sheet No. 7

<u>DATE</u>	<u>TOTAL DEPTH</u>	<u>NATURE OF WORK PERFORMED</u>
February 1958 (Cont'd)		
7	5544	Pumped in 140 BW, did not fill hole. Pulled rods and tubing, reran tubing with 4-3/4" bit and Baker casing scraper, scraped perforations 5357-79 and 5430-5538.
8	5544	Pulled tubing with bit and scraper, ran tubing with Baker 5 1/2" magnesium bridge plug set 5415'. Pulled tubing and reran with Baker magnesium cement retainer set 5202 1/2'.
9	5544	WOC. Broke down formation with 200 barrels water at 6 BPM, 800# pressure. Mixed 175 sacks cement, squeezed perforations 5357-79 with 175 sacks w/pressure gradually increasing. Cleared tubing with 30 1/2 BW, pressure 4500#. Shut down 2 minutes, pressure increased to 4950#. MP 4950#, holding pressure 4950#. Backwashed tubing, no cement returns. Job complete 9:30 A.M.
10	5544	Drilling cement at 5355. Drilled retainer at 5292' at 4:00 P.M.
11	5544	Drilled cement to 5385', tested perforations 5357-79 with 1500#, squeeze job OK. Drilled cement and bridge plug at 5415'. Pushed bridge plug 5415 to 5465. Drilled and pushed bridge plug to bottom.
12	5544	Ran Lane-Wells Blitz gun, perforated 4 holes per foot 5511-27 casing collar measurements. Ran 2-7/8" tubing, tagged bottom at 5537, set tubing at 5530 with packer set 5307.
13	5544	Loaded hole with 120 BO, spotted acid on perforations, set packer 5307, pressured casing to 1500#. Acidized with 500 gallons 15% and 15,000 gallons Jel X-100. 12 barrels in formation, pressure 3700#. 27 barrels in, 3500#. 159 barrels in, 3500#. 339 in, pressure 3300#. 344 in, 3500#. 372 in, 4000#. Flushed with 35 BO. Average 2.9 BPM. Average flush 1.9 BPM. Minimum pressure 3200#, MP 4000#. Job complete at 2:30 P.M. Acidized by Dowell. Shut in overnight.
14	5544	TP 225#. Opened well, did not flow. Ran swab to 1000', well flowed and swabbed 6 BO, ran swab to 1240', stuck swab, worked 4 hours, pulled line out of rope socket. 29 BLO and 368 barrels acid water to recover. 120 BO packed off in annulus.
15	5544	Ran Homco jars and friction socket, caught fishing neck on sinker bar, jarred on fish, pulled line out of rope socket. Rigged up and installed BOP. Pulled 40 joints of tubing, recovered swab. Replaced kinked joints, lowered tubing, set packer at 5292, tubing set 5516. 29 BLO and 368 BAW to recover.
16	5544	TP 210#. Top fluid 2500'. Swabbed 10 1/2 hours, recovered 25 BLO and 85 BAW, pulling swab from 5250'. Shut down overnight. 4 BLO and 283 BAW to recover.

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DAILY REPORT DETAILED - Sheet No. 6

<u>DATE</u>	<u>TOTAL DEPTH</u>	<u>NATURE OF WORK PERFORMED</u>
December, 1957		
5	5544	Pressured up under retainer to 1500#, could not pump in. Bled off 150# in 35 minutes. Repressured to 1500#, shut in 2 hours, lost approximately 200#. Water shut off on outside of 8-5/8" and between 8-5/8" and 5 1/2". Rigged down Halliburton. Ran tubing with bit.
6	5544	Drilling on plug.
7	5544	Drilled Baker K retainer at 465, pushed to 635', had cement to 610'. Ran tubing to 635', pressured up, broke down at 1400#, lost 125# in 1 1/2 hours.
8	5544	Bailed hole to 400'. Shut down 30 minutes, 45' fluid rise. Pressured to 1500#, lost 25# in 30 minutes. Very small gas bubble outside 8-5/8", no water. Annulus between 8-5/8" and 5 1/2" dead.
9	5544	Ran sand pump, bridged at 900'. Went in with tubing and bit, drilled 22' cement. Pulled and ran sand pump to 1800', well kicked off.
10	5544	Killed well. Drilled and drove cement plug to 5484 and cleaned out on top of packer.
11	5544	Pulled tubing and bit, sand pumped hole clean of junk and sand to plug. Went in with tool to retrieve Baker packer.
12	5544	Retrieved Baker packer. Running tubing.
13	5544	Ran 2-7/8" tubing with 2" x 1 1/4" x 10' x 14 Fluid Packed pump. Set tubing 5540', intake 5511-14, pump set 5509. Ran rods and put well on pump.
14	5544	Rigged down and moved out unit. Pumped estimated 50 BW to pit in 12 hours, 14-54" SPM.
15	5544	Pumped estimated 35 BW to pit in 7 hours, 14-54" SPM. Pump trouble.
16-18	5544	Unable to get well to pump.
19-21	5544	Waiting on pulling unit.
22	5544	Rigged up J. C. (Bum) Gibbons pulling unit, pulled rods, changed pumps and reran.
23	5544	Rigged down and moved out unit. Pumped 12 hours, 14-54" SPM, pumping water in pit.
24	5544	Pumped 8 hours, 14-54" SPM, pumping water in pit. Gas supply went off.
25-26	5544	Moved in and hooked up butane tank.
27	5544	Started well, pump stuck.
28-30	5544	Waiting on pulling unit.
31	5544	Moved in and rigged up J. C. (Bum) Gibbins pulling unit, pulled rods and pump.
January 1958		
1	5544	Ran new pump and rods. Rigged down and moved out unit. Pumped water to pit 14 hours, pump stuck.
2	5544	Waiting on pulling unit.
3	5544	Rigged up J. C. (Bum) Gibbins unit, pulled rods and pump, swabbed well to tank batter, recovered 50 BO and 35 BW in 4 hours swabbing from 4900'. Shut in for darkness.
4	5544	Pumped 95 BW with stain oil in 21 hours, 14-54" SPM. Rigged down and moved out unit.

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DAILY REPORT DETAILED - Sheet No. 5

<u>DATE</u>	<u>TOTAL DEPTH</u>	<u>NATURE OF WORK PERFORMED</u>
October 1957		
23	5544	Perforated by Lane-Wells, 4 cone shots per foot 5511-28. Ran tubing with packer, set 5459, pumped in, would not hold. Set packer 5300, held OK. Have communication with perforations 5357-79.
24	5544	Set Baker retainer at 5459 with 60' tail pipe at 5524'. Loaded tubing with 32 BO followed with 500 gallons mud acid and 1500 gallons regular 15% acid, on formation 2700# casing and tubing. 4 barrels in 2400#. 12 barrels in 2700# to 2600#. 16 barrels in 2600# to 2400#. 20 barrels in 2700# to 2500#. Remainder in at 2750#. Injection rate .7 BPM. Flushed with 8 BO in formation at 3000#. Shut in 5 minutes, pressure 2800#; 1 hour 1750#. Opened to pit, flowed 20 BLO and died. Attempted to run Otis collar stop, broke line, fished and reran, set at 5397'. Shut down for darkness.
25	5544	Swabbed 10½ hours. Swabbed to pit 8½ hours, approximately 90 BF, 50% oil & 50% water. Swabbed to tank 2 hours, grind out 40% water, 60% oil. TP 75#, CP zero. Shut in overnight.
26	5544	Fluid level 5100'. Swabbed 10½ hours from 5350'. Swabbed 83.7 BF into tanks; 43.3 BW, 40.4 BO. Grind out 45% water. TP 75#, CP zero. Shut in overnight.
27	5544	Swabbed 10½ hours, recovered 10 BO and 5 BW first 2 hours. Swabbed fluid level to 5100'. Kinked sand line, would not go below 5100'.
28	5544	Pulled 2-7/8" tubing and packer. Reran 2-7/8" OD 6.5# EUE tubing set at 5422', perforations 5407-10, pump seat 5405'. Rig released at 12:00 midnight.
29-31	5544	Moving out rotary.
November 1957		
1-26	5544	Moved in pumping unit and Byers portable pumping unit base from Ardmore. Moved in pumping unit engine from Oklahoma City. Set base, pumping unit and engine.
27	5544	Moved in and rigged up double drum unt, J. P. (Bum) Gibbins, Inc.
28	5544	Running rods, put on stuffing box & polish red.
29	5544	Finished running rods, pump would not seat. Reseated pump.
30	5544	Pulled rods, rigged up to pull tubing. Preparing to squeeze off water flow outside 8-5/8" casing.
December 1957		
1	5544	Pulling 2-7/8" tubing.
2	5544	Finished pulling 2-7/8" tubing.
3	5544	Rigged up Halliburton. Attempted to pump in between 8-5/8" casing and 5-1/2" casing with 1500# pressure. Unable to pump in.
4	5544	Ran Baker Model K retainer set at 465'. Ran tubing, stung into packer, pumped in 27 BW at 4 BPM at 1600#. Cemented with 150 sacks regular cement, 10% sand, 4% calcium chloride, cleared perforations with 6 BW, MP 2000#, dropped to 300#. Water not entirely shut off behind 8-5/8".

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DAILY REPORT DETAILED - Sheet No. 4

<u>DATE</u>	<u>TOTAL DEPTH</u>	<u>NATURE OF WORK PERFORMED</u>
October 1957		
4	5554	Fluid level 3000'. Swabbed 12 hours, recovered 160 BAW and 30 BO. Last 3 hours 30 BO and 45 BAW. Swabbing to 5300'. Shut in overnight.
5	5554	Swabbed 12 hours, recovered 9 BO and 36 BAW. TP 150#. Shut in overnight.
6	5554	Swabbed 12 hours, recovered 56 BF, 35 BS&AW, 21.71 BO. Left open overnight, flowed 2 bbls fluid.
7	5554	Swabbed 12 hours, recovered 20 BAW, 15 BO. Open overnight, did not flow. 219 BAW to recover. 193 bbls new oil recovered.
8	5554	Killed well, pulled tubing.
9	5442	Set Baker CI bridging plug at 5450. Perforated with Lane-Wells "E" gun, 4 holes per foot, 5379-72 and 5366-57. Set Baker Model D-415 production packer at 5347. Ran 2-7/8" OD tubing with 3 joints 2-3/8" tubing for tail pipe, Intake on tail pipe at 5410'. Displaced water with oil.
10	5442	Swabbed 12 hours from 4000', recovered 21 barrels of 31 BLO in tubing. Bad sand line, unable to swab below 4000'.
11	5442	Swabbed 12 hours from 4000', waiting on swab line. Recovered 14 barrels new oil over load.
12	5442	Changed swab lines. Pulled swab 30 trips in 11 hours, recovered 76 BO, 2 to 6% water.
13	5442	Pulled swab 17 times, recovered 54 BO, 2 to 6% water. Operations slowed down account heavy rains.
14	5442	Acidized Raplee zone through perforations 5379-72 and 5366-57 with 5000 gallons 15% acid by Halliburton. Flushed with 40 BO. MP 1800#, min 400#. Maximum pressure occurred on last part of treatment. Average pumping rate 4.2 BPM. Shut in 1 1/2 hours. Opened well, flowed 1 BO. Swabbed 8 hours, recovered oil load and 80 BAW.
15	5442	Down 24 hours, waiting on swab line.
16	5442	Swabbed 12 hours, recovered 40 BAW cut with oil and 40 bbls clean oil.
17	5442	Swabbed 11 hours, recovered 24 BO and 16 BAW.
18	5442	Mixing mud and conditioning to kill well. Swabbed 6 hours, recovered 15 BO and 8 1/4 BAW.
19	5442	Mixed mud with lost circulation material and displaced oil. Lost estimated 200 barrels mud and 110 barrels oil.
20	5442	Going in hole with tubing and bit to drill plug.
21	5442	Drilled out 415-D packer at 5347. Drilling on CI bridge plug at 5450.
22	5544	Drilled plug and pushed to 5544. Ran tubing, displaced mud with water.

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DAILY REPORT DETAILED - Sheet No. 3

<u>DATE</u>	<u>TOTAL DEPTH</u>	<u>NATURE OF WORK PERFORMED</u>
September 1957		
23 (Cont'd)		2000 gallons Dowell XWF 15% acid. Overall injection rate 2 BPM, injection 80 nylon balls. Pressure 3700#, gradual increase to 4500#, followed with 32 barrels oil flush.
24	5554	Swabbed well 12 hours, recovered 32 BLO and 15 BAW. Repaired swab line.
25	5554	Swabbed well 6 hours, recovered 30 BO and AW. Shut in 10 hours, SITP 100#. Opened to pits, well dead. Swabbed 2 runs and swabbed dry, recovered 10 BO and AW.
26	5554	Acidized with 6000 gallons Dowell 15% acid, MP 4100#, average 4000#. Injection rate 5 BPM, no break. Flushed with 40 BO, 8 barrels into formation. Shut in 2 hours, pressure dropped to 2500#. Opened well, flowed back estimated 75 BAW and died. Swabbed 3 hours, recovered 60 BO and AW, slight increase in gas.
27	5554	Swabbed from bottom for 6 hours into tank. Recovered 12.5 BAW and 8.9 BO.
28	5554	Swabbed 6 hours to pit, recovered estimated 20 BAW and 10 BO. Acidized with 12,000 gallons 15% acid. Injection rate 4.8 BPM. 50 barrels in, 3800#. 100 bbls in, 4100#. 160 bbls in, 4200#. 200 bbls in, 4200#. 256 bbls in, 4200#. 285 bbls in, 4700#. Flushed with 40 BO, 8 bbls into formation. Shut in 1 hour, pressure dropped to 4000#. Opened well and flowed 40 BLO in 8 minutes and estimated 80 BAW to pits and died. Swabbed and flowed until dark, estimated 125 BAW recovered.
29	5554	Swabbed from 6:00 A.M. to 3:00 P.M. to pits from 5000', recovered estimated 45 BO and 45 BAW. Swabbed to tank 3 hours, recovered 6.76 BO and BAW. Gas increasing. Left open overnight.
30	5554	Swabbed 9 hours to tank, recovered 41 BO, 23 BAW. Otis collar stop moved up hole from 5410' to 4507'.
October 1957		
1	5554	Fished Otis collar stop with wire line. Attempted to run new stop, would not go below 4852'. Fluid level 4300'. Estimated 206 BAW to recover. Estimated 108 bbls new oil recovered.
2	5554	Ran collar stop, set 5307'. Swabbed to tanks 4½ hours, recovered 11 BO, 13 BAW. Shut in overnight.
3	5554	Ran swab 2 runs, recovered 1.7 BO and 2.3 BAW. Acidized with 20,000 gallons 15% regular acid. 4.2 BPM injection rate on acid and 1.1 BPM on flush. Starting pressure 3750#. 60 bbls in 3900#. 100 bbls in 3900#. 160 bbls in 4000# and for remainder 3900# to 4100#. Flushed with 40 BO, 8 barrels into formation 3700#. Shut in 1 hour, 10 minutes, 3600#. Opened and flowed 40 BLO in 3 minutes. Flowed to pits 2½ hours and died. Left open overnight.

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DAILY REPORT DETAILED - Sheet No. 2

<u>DATE</u>	<u>TOTAL DEPTH</u>	<u>NATURE OF WORK PERFORMED</u>
August 1957		
24	3830	Drilling shale and lime.
25	4022	Drilling shale and lime.
26	4060	TD in shale. Down to repair draw works.
27	4236	Drilling shale, anhydrite & gyp.
28	4398	Drilling lime and shale.
29	4497	Drilling shale and sand.
30	4646	Drilling shale and lime.
31	4732	Drilling shale and lime.
September 1957		
1	4835	Drilling shale and lime.
2	4937	Drilling shale and lime.
3	5053	Drilling shale and lime.
4	5174	Drilling shale and lime.
5	5259	Drilling shale and lime.
6	5300	Cutting Core #1. Started coring at 5259.
7	5307	Going in with core barrel. Core #1, 5259-5307, recovered 48'. See Core Record.
8	5337	Cutting Core #2. Started core at 5307.
9	5364	Cutting Core #3. Core #2, 5307-5364, recovered 57'. See Core Record.
10	5406	Coring.
11	5444	Cutting Core #4. Core #3, 5364-5417, recovered 53'. See Core Record.
12	5475	Coring.
13	5517	Coring. Core #4, 5417-5475, recovered 54', See Core
14	5567	Coring. Core #5, 5475-5533, recovered 44', See Core Record.
15	5584	Total Depth. Core #6, 5533-5572, recovered 39', See Core Record.
16	5584	Ran Lane-Wells Gamma Ray-Neutron log. Hole bridging at 2350'. Tool only went to 2363'.
17	5584	Circulating and conditioning mud. Ran Lane-Wells Gamma-Ray Neutron log to total depth.
18	5584	Ran Schlumberger Electrical Log, Induction-Electric Log, Micro Log, Micro Laterolog and Gamma-Ray Neutron Log.
19	5584	Completed logging. Circulating, preparing to run pipe.
20	5584	WOC. Ran 5½" OD 14# 8R J55 ST&C casing set at 5583' RKB. Cemented with 263 sacks Ideal regular cement, 187 sacks Diacel "D", 930# calcium chloride. Pumped plug to 5549' at 10:00 A.M.
21	5554	Ran tubing with bit, drilled cement and plug to 5554'. Tested casing with 500# for 30 minutes, held OK.
22	5554	Ran Lane-Wells Gamma Ray-N/Neutron and collar log. Perforated by Lane-Wells "E" gun, 15/32" holes, 4 holes per foot, 5538-48, 5532-35, 5511-28, 5480-90.
23	5554	Ran Baker #415 packer on wire line set at 5470'. Ran tubing with 60' of 2" tail pipe, set in packer. Displaced water with oil. Broke formation with oil at 4900#. Acidized with 1000 gallons mud acid and

# DAILY REPORT DETAILED

LEASE Navajo "A" WELL NO. 3 SHEET NO. 1

<u>DATE</u>	<u>TOTAL DEPTH</u>	<u>NATURE OF WORK PERFORMED</u>
August 1957		
5		Location staked by San Juan Engineering Co., 560' NSL and 820' EWL of Section 22-41S-24E, San Juan County, Utah.
6-7		Grading road & location. Moved in the rigged up George Noland, Contractor.
8	36	WOC. Reamed hole to 19-3/4" and set 15" conductor pipe cemented with 35 sacks. Spudded hole at 4:00 PM.
9	490	Drilling sand and shale.
10	1279	Drilling sand and shale. Encountered water flow at 586'.
11	1315	WOC. Ran 8-5/8" OD 24# J-55 casing set at 1313' RKB and cemented with 650 sacks Ideal regular cement, circulated. Pumped plug to 1282'. Job complet at 8:30 P.M.
12	1315	WOC. Water flow behind 8-5/8" casing, cement dropped 100' in annulus, small stream. Ran 100' of 1" pipe behind 8-5/8" and cemented with 80 sacks, 1% calcium chloride. Filled annulus and held 5 minutes, then water flow broke through again.
13	1315	WOC. Perforated by Welex, 4 holes in 8-5/8" casing 547-49', water entered casing. Could not circulate. Ran Baker Model K retainer set at 530' on drill pipe. Cemented with 50 sacks with Calseal and sand. MP 1800#. Backwashed 1/2 barrel. Partially shut off water flow.
14	1315	Perforated by Welex with 4 holes, 191-192'. Closed BOP, squeezed down casing. Broke formation with 500#, pumped in 4 barrels water in 2 minutes, broke water up through rat hole. Squeezed with 50 sacks neat cement, 10% sand, 4% calcium chloride. MP 800#. Job complete 1:00 P.M. Water shut off.
15	1630	Drilled out Baker plug at 535'. Tested casing with 500# for 30 minutes, held OK. Drilled to 1400', tested again with 500# for 30 minutes, held OK. Drilling sand and shale.
16	2001	Drilling shale.
17	2460	Drilling shale and sand.
18	2698	Drilling shale and sand.
19	2822	Drilling shale.
20	3000	Drilling shale and lime.
21	3162	Drilling shale.
22	3390	Drilling shale and lime.
23	3635	Drilling shale, lime and gyp.

W

## SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. 96-004192 ✓
2. NAME OF OPERATOR Phillips Oil Company		6. IF INDIAN, ALLOTED OR TRIBE NAME Navajo
3. ADDRESS OF OPERATOR P. O. Box 2920, Casper, WY 82602		7. UNIT AGREEMENT NAME Ratherford Unit ✓
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface See Attached		8. FARM OR LEASE NAME
14. PERMIT NO. See Attached		9. WELL NO.
15. ELEVATIONS (Show whether OF, AT, OR, etc.)		10. FIELD AND POOL, OR WILDCAT N/A
		11. SEC., T., R., M., OR BLK. AND SECTY OR AREA See Attached
		12. COUNTY OR PARISH San Juan
		13. STATE Utah

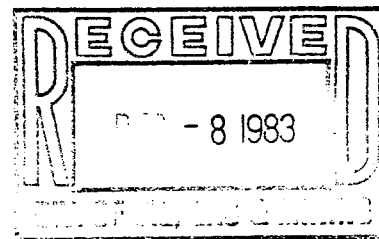
16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) \*

To show change of Operator only. Phillips Oil Company assumed operations effective December 1, 1983 from Phillips Petroleum Company. See attached for list of wells.



Org. &amp; 3-BLM

1-The Navajo Nation  
1-Mary Wiley Black  
1-Lawrence E. Brock  
1-Chevron USA  
1-Ralph Fixel  
1-Royal Hogan  
1-W. O. Keller  
1-Dee Kelly Corp.

1-Robert Klabzuba  
1-Micheal J. Moncrief  
1-Richard B. Moncrief  
1-Lee W. Moncrief  
1-Mary H. Morgan  
1-W. A. Moncrief  
1-W. A. Moncrief, Jr.  
1-L. F. Peterson

1-Shell Oil Co.  
1-Southland Royalty Co.  
1-Superior Oil Co.  
1-Leroy Shave  
1-Texaco, Inc.  
1-Wade Wiley, Jr.  
1-Edwin W. Word, Jr.  
1-File

18. I hereby certify that the foregoing is true and correct

SIGNED A. E. Stuart TITLE Area Manager

DATE 12/6/83

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

TITLE \_\_\_\_\_

DATE \_\_\_\_\_

\*See Instructions on Reverse Side

<u>WELL NO.</u>	<u>WELL LOCATION</u>	<u>API NO.</u>	<u>STATUS</u>
E14-12	SW NW Sec.14-T41S-R24E	43-037-15998	Act.
E14-13	NW SW Sec.14-T41S-R24E	43-037-15999	SI
10-44	SE SE Sec.10-T41S-R24E	43-037-30451	Act.
15-12	SW NW Sec.15-T41S-R24E	43-037-15715	Act.
15-14	SW SW Sec.15-T41S-R24E	43-037-15716	SI
15-22	SE NW Sec.15-T41S-R24E	43-037-30449	Act.
15-32	SW NE Sec.15-T41S-R24E	43-037-15717	Act.
15-33	NW SE Sec.15-T41S-R24E	43-037-15718	SI
15-41	NE NE Sec.15-T41S-R24E	43-037-15719	Act.
15-42	SE NE Sec.15-T41S-R24E	43-037-3-448	SI
16-12	SW NW Sec.16-T41S-R24E	43-037-15720	Act.
16-14	SW SW Sec.16-T41S-R24E	43-037-15721	Act.
16-32	SW NE Sec.16-T41S-R24E	43-037-15723	Act.
16-34	SW SE Sec.16-T41S-R24E	43-037-15724	SI
16-41	NE NE Sec.16-T41S-R24E	43-037-15725	Act.
17-12	SW NW Sec.17-T41S-R24E	43-037-15726	Act.
17-14	SW SW Sec.17-T41S-R24E	43-037-15727	Act.
17-23	NE SW Sec.17-T41S-R24E	43-037-15728	Act.
17-32	SW NE Sec.17-T41S-R24E	43-037-15729	Act.
17-34	SW SE Sec.17-T41S-R24E	43-037-15730	Act.
17-41	NE NE Sec.17-T41S-R24E	43-037-15731	Act.
17-44	SE SE Sec.17-T41S-R24E	43-037-15732	Act.
18-11	NW NW Sec.18-T41S-R24E	43-037-15733	SI
18-13	NW SW Sec.18-T41S-R24E	43-037-15734	Act.
18-14	SW SW Sec.18-T41S-R24E	43-037-15735	Act.
18-23	NE SW Sec.18-T41S-R24E	43-037-30244	Act.
18-32	SW NE Sec.18-T41S-R24E	43-037-15736	Act.
18-34	SW SE Sec.18-T41S-R24E	43-037-15737	Act.
19-12	SW NW Sec.19-T41S-R24E	43-037-15739	Act.
19-14	SW SW Sec.19-T41S-R24E	43-037-15740	SI
19-32	SW NE Sec.19-T41S-R24E	43-037-15743	Act.
19-34	SW SE Sec.19-T41S-R24E	43-037-15744	Act.
20-12	SW NW Sec.20-T41S-R24E	43-037-15746	Act.
20-14	SW SW Sec.20-T41S-R24E	43-037-15747	Act.
20-32	SW NE Sec.20-T41S-R24E	43-037-15749	Act.
20-34	SW SE Sec.20-T41S-R24E	43-037-15750	Act.
21-12	SW NW Sec.21-T41S-R24E	43-037-15752	Act.
21-14	SW SW Sec.21-T41S-R24E	43-037-15753	Act.
21-23	NE SW Sec.21-T41S-R24E	43-037-13754	Act.
21-32	SW NE Sec.21-T41S-R24E	43-037-15755	Act.
21-33	NW SE Sec.21-T41S-R24E	43-037-30447	SI
21-34	SW SE Sec.21-T41S-R24E	43-037-15756	Act.
22-12	SW NW Sec.22-T41S-R24E	43-037-15757	SI
(Navajo a-3) 22-14	SW SW Sec.22-T41S-R24E	43-037-15758	SI
24-42	SE NE Sec.24-T41S-R24E	43-037-15863	Act.
28-11	NW NW Sec.28-T41S-R24E	43-037-30446	Act.
28-12	SW NW Sec.28-T41S-R24E	43-037-15336	Act.
29-12	SW NW Sec.29-T41S-R24E	43-037-15337	Act.
29-32	SW NE Sec.29-T41S-R24E	43-037-15339	Act.



**DEPARTMENT OF THE INTERIOR**  
**BUREAU OF LAND MANAGEMENT**

(Other instructions on reverse side)

EXPIRES AUGUST 31, 1985

**SUNDRY NOTICES AND REPORTS ON WELLS**

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
 Use "APPLICATION FOR PERMIT—" for such proposals.)

<b>1. OIL WELL</b> <input checked="" type="checkbox"/> <b>GAS WELL</b> <input type="checkbox"/> <b>OTHER</b> <input type="checkbox"/>		<b>2. LEASE DESIGNATION AND SERIAL NO.</b> 14-20-603-355 <span style="float:right">3</span>	
<b>3. NAME OF OPERATOR</b> Phillips Petroleum Company		<b>4. IF HOLE, ALLOTTEE OR TRACT NAME</b> Navajo	
<b>4. ADDRESS OF OPERATOR</b> P. O. Box 2920, Casper, WY 82602		<b>5. UNIT AGREEMENT NAME</b> SW-I-4192	
<b>6. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.)</b> At surface 560' FSL, 820' FWL (SW/SW)		<b>6. NAME OF LEASE NAME</b> Ratherford Unit	
<b>14. PERMIT NO.</b> 43-037-15758		<b>15. ELEVATIONS (Show whether SV, ST, GL, etc.)</b> KB 4609.9', GL 4596.4'	
<b>16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data</b>		<b>7. WELL NO.</b> 22-14	
<b>NOTICE OF INTENTION TO:</b>		<b>8. FIELD AND POOL, OR WILDCAT</b> Greater Aneth	
TEST WATER SHUT-OFF <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> SHOOT OR ACIDIZE <input type="checkbox"/> REPAIR WELL <input type="checkbox"/> (Other) <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/> MULTIPLE COMPLETE <input type="checkbox"/> ABANDON* <input checked="" type="checkbox"/> CHANGE PLANS <input type="checkbox"/>	<b>9. SEC. 2, 3, 4, 5, OR 6, 7, 8, AND 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000</b>	

**16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data**

<b>NOTICE OF INTENTION TO:</b>		<b>SUBSEQUENT REPORT OF:</b>	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input checked="" type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Other) <input type="checkbox"/>

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

**17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\***

See attachment for Well Data, Justification and Proposed Operation.

ACCEPTED BY THE STATE  
 OF UTAH DIVISION OF  
 OIL, GAS, AND MINING

DATE: 9/4/85  
 BY: [Signature]

Federal approval of this action  
 is required before commencing  
 operations.

A 10' x 8' x 6' fenced pit will be constructed on location in a previously disturbed area. Upon completion of the workover, the pit will be dried and recovered.

**RECEIVED**

SEP 03 1985

DIVISION OF OIL  
 GAS & MINING

- 5- BLM, Farmington, NM  
 2- Utah O&G CC, Salt Lake City, Utah  
 1- P. J. Adamson  
 1- B. Conner, 318 B-TRW  
 1- J. R. Weichbrodt  
 1- C. M. Anderson  
 1- File RC

**18. I hereby certify that the foregoing is true and correct**

SIGNED: [Signature] TITLE: Area Manager DATE: August 27, 1985  
 D. C. GILL

(This space for Federal or State office use)

APPROVED BY: \_\_\_\_\_ TITLE: \_\_\_\_\_ DATE: \_\_\_\_\_  
 CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

RATHERFORD UNIT WELL #22-14

Item 17

WELL DATA:

8-5/8" 24# csg @ 1313' w/651 sx cmt.  
5-1/2" 14# csg @ 5583' w/450 sx cmt.

Perfs @ 5480'-5490', 5511'-5528', 5532'-5535', 5538'-5548'.

Formation Tops: Dechelly @ 2445'  
Hermosa @ 3970'  
Desert Creek @ 5405'

TD: 5584' PBTD: 5544'

JUSTIFICATION:

The well does not have economical production and has no recompletion or stimulation potential.

PROPOSED OPERATION:

- 1) Sgz perfs w/75 sx cmt. TOC @ 5350'.
- 2) Spot 25 sx cmt in 5-1/2" csg from 4070' to 3870' across Hermosa.
- 3) Perf 5-1/2" csg @ 2700'.
- 4) Pump 100 sx cmt to provide 300' balanced plug in annulus and 5-1/2" csg from 2700' to 2400' to isolate the Dechelly Fm.
- 5) Perf 5-1/2" csg @ 1370'.
- 6) Pump 60 sx cmt to provide 170' balanced plug in annulus and in 5-1/2" csg from 1370' to 1200' to provide a plug across 8-5/8" surf csg shoe.
- 7) Pump 40 sx cmt plug in annulus and 5-1/2" csg to provide 100' plug to surface.
- 8) Install P&A marker, unless surface owner requests otherwise, and rehab surface.
- 9) Will use mud-laden fluid between all cmt plugs.

RECEIVED

SEP 03 1985

DIVISION OF OIL  
GAS & MINING

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE  
(Other instructions on re-  
verse side)

Expires August 31, 1985  
3  
5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-355

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo

7. UNIT AGREEMENT NAME

SW-I-4192

8. FARM OR LEASE NAME

Ratherford Unit

9. WELL NO.

22-14

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

11. SEC., T., R., M., OR BLK. AND  
SURVEY OR AREA

Sec. 22-41S-24E

12. COUNTY OR PARISH  
San Juan

13. STATE  
Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR  
Phillips Petroleum Company

3. ADDRESS OF OPERATOR  
P.O. Box 2920, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
560' FSL, 820 FWL (SW/SW)

14. PERMIT NO.  
43-037-15758

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
KB 4609.9', GL 4596.9'

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

X

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well  
Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Due to current economic conditons, approval is requested to keep well shut in until conditions improve.

5-BLM, Farmington, NM  
2-Utah O&G CC, Salt Lake City, Utah  
1-P. J. Adamson  
1-M. Williamson, 302 TRW  
1-J. R. Reno  
1-B. J. Murphy  
1-File RC

RECEIVED  
OCT 16 1986  
DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct

SIGNED

D. C. Gill

TITLE Area Manager

DATE 10-13-86

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

Federal approval of this action  
is required before commencing  
operations.

\*See Instructions on Reverse Side

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE 10-17-86

BY John R. Bays

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

COMPANY: Phillips Oil Co UT ACCOUNT # 16770

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: Merry Widiker

CONTACT TELEPHONE NO.: 1-307-237-3791

SUBJECT: Merry will return my call

(Use attachments if necessary)

RESULTS: Well was 5-1 June 1, 1977.

Well has not produced since  
Cum figures are:

O	G	W
18,993	33,000	11,254

Merry was advised that this well will begin to  
appear on Oct IAR.

(Use attachments if necessary)

CONTACTED BY: VC

DATE: 10-27-86

VICKY

THIS WELL IS <sup>151</sup>SI (JUN 77)  
AND SHOULD APPEAR ON  
THE TAD.

O	G	W
18,993	33,000	11,254

(BETTER CHECK THESE)

CALL TO VERIFY CUMS AND LET  
THEM KNOW WHAT WE'RE DOING.  
NO BACK REPORTS BETWEEN  
TIME OF LAST PRODUCTION AND  
NOW, SHOULD BE REQUIRED.  
CHECK WITH ME AFTER YOU  
CALL.

TNX, VC  
10-23-86

correct  
no chg

COMPANY: Phillips Oil Co UT ACCOUNT # 16770 SUSPENSE DATE:                     

TELEPHONE CONTACT DOCUMENTATION

CONTACT NAME: Merry Widiker

CONTACT TELEPHONE NO.: 1-307-237-3791

SUBJECT: ~~Merry~~ Merry will return my call Monday, Oct 27, 1986.

(Use attachments if necessary) 10-28-86 changed P2 from  
PRDX to DSCR. PER WELL DATA  
DATE STAMPED 9-3-85. VC

RESULTS: Well was 5-1 June 1, 1977.  
Well has not produced since that date.  
Cum figures are:

<u>O</u>	<u>G</u>	<u>W</u>
<u>18,993</u>	<u>33,000</u>	<u>11,254</u>

Merry was advised that this well will begin to  
appear on Oct 1st.  
(Use attachments if necessary)

*cums were correct in Amstar so no chgs. Made*

CONTACTED BY: VC

DATE: 10-27-86



UTAH  
NATURAL RESOURCES  
Oil, Gas & Mining

355 West North Temple, 3 Triad Center, Suite 350, Salt Lake City, UT  
84180-1203. • (801-538-5340)

PRD7341 0705

120800

DOGM: 56-64-2  
an equal opportunity employer

Page 4 of 10

# MONTHLY OIL AND GAS PRODUCTION REPORT

Operator name and address:

• PHILLIPS PETROLEUM COMPANY  
P O BOX 2920  
CASPER WY 82602  
ATTN: MERRY WIDIKER

DEC 3 1987

DIVISION OF  
OIL, GAS & MINING

Utah Account No. N0772

Report Period (Month/Year) 10 / 87

Amended Report ☐

PA - DSCR

Well Name	Producing	Days	Production Volume			
API Number Entity Location	Zone	Oper	Oil (BBL)	Gas (MSCF)	Water (BBL)	
#22-12						
4303715757 06280 41S 24E 22	DSCR	0	Plugged + Abandoned		10/21/87	
#22-14						
4303715758 06280 41S 24E 22	DSCR	0	Plugged + Abandoned		10/28/87	
#12-14						
4303715844 06280 41S 23E 12	PRDX	31	314	865	100	
#12-23						
4303715846 06280 41S 23E 12	PRDX	31	139	679	167	
#12-41						
4303715849 06280 41S 23E 12	DSCR	26	22	564	54	
RATHERFORD 41-13 (13W41)						
4303715856 06280 41S 23E 13	DSCR	24	32	238	5391	
#14-32						
4303715858 06280 41S 23E 14	IS-DC	31	1252	3904	1136	
#14-33						
4303715859 06280 41S 23E 14	DSCR	0	SI	SI	SI	
#24-11						
4303715861 06280 41S 23E 24	DSCR	0	SI	SI	SI	
#5-34						
4303715983 06280 41S 24E 5	IS-DC	0	SI	SI	SI	
#8-12						
4303715991 06280 41S 24E 8	DSCR	31	53	208	334	
#8-21						
4303715993 06280 41S 24E 8	DSCR	30	126	125	288	
#8-23						
4303715994 06280 41S 24E 8	IS-DC	31	280	320	2007	
TOTAL			2218	6903	9477	

Comments (attach separate sheet if necessary)

#22-12 P+M'd 10/21/87  
#22-14 P+M'd 10/28/87

I have reviewed this report and certify the information to be accurate and complete.

Date 11/25/87

Merrith K. Widiker  
Authorized signature

Telephone (307) 237-3791

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIP  
(Other instruction  
verse side)

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Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☒ GAS WELL ☐ OTHER ☐

2. NAME OF OPERATOR

Phillips Petroleum Company

3. ADDRESS OF OPERATOR

P. O. Box 2920, Casper, WY 82602

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)  
See also space 17 below.)  
At surface

560' FSL, 820' FWL (SW/SW)  
Sec. 22 - T41S - R24E

14. PERMIT NO.

43-037-15758

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

KB: 4609.9' GL: 4596.4'

5. LEASE DESIGNATION AND SERIAL NO.

14-20-603-355

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Navajo 120137

7. UNIT AGREEMENT NAME

SW-I-4192

8. FARM OR LEASE NAME

Ratherford Unit

9. WELL NO.

#22-14

10. FIELD AND POOL, OR WILDCAT

Greater Aneth

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 22-41S-24E

12. COUNTY OR PARISH

San Juan

13. STATE

Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Well was plugged October 28, 1987. See attached for Well Data and Summary of completed operations.

5-BLM, Farmington, NM

2-Utah O&G CC, Salt Lake City, UT

1-P. J. Konkell

1-J. R. Reno

1-File-RC

1-M. Williamson, 1370 G POB

18. I hereby certify that the foregoing is true and correct

SIGNED

D. C. Gill

TITLE Area Manager

DATE November 10, 1987

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

ACCEPTED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING

DATE: 11-24-87

BY: [Signature]

\*See Instructions on Reverse Side

Ratherford Unit 22-14

Item 17

Well Data:

RKB: 4610'      GL: 4596'

8-5/8", 24# casing @ 1313' w/ 651 sx cement  
5-1/2", 14# casing @ 5583' w/ est. top of cement @ 2550'  
No casing was recovered.

Perfs @ 5480-5490', 5511-5528', 5532-5535', 5538-5548'

Formation tops:      Hermosa      @ 4380'  
                         Desert Creek      @ 5411'

PBTD: 5544'

Completed Operations:

1. POOH w/ rods, pump, and tubing.
2. RIH w/ bit and scraper to 5548'. Established injection rate of 3 BPM @ 1500 psi.
3. POOH. RIH w/ cement retainer on 2-7/8" work string. Set retainer at 5363'.
4. Pumped 75 sx cement to set plug in casing across perfs from 5363' to 5548'. Left 5 sx of 75 on top of retainer.
5. POOH. RIH w/ tubing open-ended to 4481'. Spotted 25 sx cement across Hermosa to set plug from 4481' to 4235'.
6. RIH w/ perforating gun, tag Hermosa plug at 4235'.
7. Raised gun to 1370', shot 5 shots/ft, 1 foot.
8. POOH w/ gun. Attempted to establish circulation down 5-1/2" casing and up annulus. Could not establish circulation.
9. RIH w/ tubing open-ended to 1431'. Pumped 40 sx cement to spot balanced plug from 1431' to 1100'. Pressured up to displace cement into perfs. Tagged plug at 1100'.
10. RIH w/ 40' of tubing. Pumped 5 sx cement down tubing and back up to surface to create surface plug.
11. Cut 5-1/2 and 8-5/8" casings off 4' below GL. Welded 3/8" plate on 8-5/8" casing and installed inscribed permanent monument.
12. Filled pit and cleaned up location.



# DOWNHOLE SCHEMATIC

WELL: 22-14

RKB: 4610'

GL: 4596'

CURRENT

COMPLETED

SURFACE CSG 8 5/8" 24#

1313'

STOC

2550'

PERFS 5480-5490 5511-5528

5532-5535 5538-5548

P87D

5544

PROD. CSG.

5 1/2" 14#

5583'

450 SX CMT

TUBING

2 7/8" 6.5#

5541'

5 SX CEMENT

40' TO SURFACE

40 SX CEMENT

BALANCED PLUG FROM +  
1100' TO 1431'

NEW PERFS @ 1370'

9.6 PPg

MUD

HERMOSA PLUG

25 SX CEMENT

4235'-4481'

9.6 PPg

MUD

RTNR. SET @ 5363'

75 SX CLASS 8 CEMENT